

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/03/02

Date Received: 09/27/02

Project: Metro Self Monitor, PO# M68764

Date Extracted: 09/30/02

Date Analyzed: 09/30/02

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M68764 209207-01	0.28	0.24	0.21	<0.10
Method Blank	<0.05	<0.05	<0.05	<0.10

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 209200-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	<0.05	<0.05	nm	0-20
Copper	mg/L (ppm)	<0.05	<0.05	nm	0-20
Nickel	mg/L (ppm)	<0.05	<0.05	nm	0-20
Zinc	mg/L (ppm)	0.83	0.84	1	0-20

Laboratory Code: 209200-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	<0.05	95	93	80-120	2
Copper	mg/L (ppm)	2	<0.05	98	96	80-120	2
Nickel	mg/L (ppm)	4	<0.05	97	95	80-120	2
Zinc	mg/L (ppm)	2	0.83	100	100	80-120	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	100	96	80-120	4
Copper	mg/L (ppm)	2	100	96	80-120	4
Nickel	mg/L (ppm)	4	99	95	80-120	4
Zinc	mg/L (ppm)	2	107	105	80-120	2

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

October 3, 2002

DUPLICATE COPY

INVOICE # 02ACU1003-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M68764 - Results of testing requested by
Gerry Thompson for material submitted on September 27, 2002.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	<u>\$ 80.00</u>
Amount Due	\$ 80.00

FEDERAL TAX ID #(b) (6)

209207

SAMPLE CHAIN OF CUSTODY

ME. 9/27/02 BTJ

AKC-0009086

Send Report To G. Thompson
 Company Alaskan Copper works
 Address 628 S. Franklin St.
 City, State, ZIP Seattle WA 98134
 Phone # 206-782-8379 Fax # _____

SAMPLER'S (signature)

PROJECT NAME/NO.

PO #

ME No Self monitor168764

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	CHCym, 1,2-n				
<u>168764</u>	<u>01</u>	<u>9/26</u>	<u>11:30</u>	<u>A20</u>	<u>1</u>							<u>✓</u>				

Friedman & Bruya, Inc.
 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

G. ThompsonLawrence HooperAlaskan Copper Works
F&B, Inc.9/26/02
11:30

FRIEDMAN & BRUYA, INC.

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October 3, 2002

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 27, 2002 from your Metro Self Monitor, PO# M68764 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU1003R.DOC